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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/528,629	03/22/2005	Andrew Brian Cundy	SHP-PT085	3770
3624 VOLPE AND K	7590 09/16/200 KOENIG, P.C.	EXAMINER		
UNITED PLAZ	ZA, SUITE 1600		PHASGE, ARUN S	
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			1795	
			MAIL DATE	DELIVERY MODE
			09/16/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Applica	ation No.	Applicant(s)		
Office Action Summary		10/528	,629	CUNDY ET AL.		
		Examir	ier	Art Unit		
		Arun S.	Phasge	1795		
Period fo	- The MAILING DATE of this commur r Reply	nication appears on	the cover sheet wi	th the correspondence a	ddress	
A SHO WHIC - Exten after 9 - If NO - Failur Any re	DRTENED STATUTORY PERIOD F HEVER IS LONGER, FROM THE N sions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comi period for reply is specified above, the maximum si e to reply within the set or extended period for reply sply received by the Office later than three months d patent term adjustment. See 37 CFR 1.704(b).	MAILING DATE OF s of 37 CFR 1.136(a). In no nunication. tatutory period will apply and will, by statute, cause the a	THIS COMMUNIC event, however, may a red will expire SIX (6) MON application to become AB	CATION. eply be timely filed THS from the mailing date of this of the same o		
Status						
2a)⊠ 3)□	Responsive to communication(s) file This action is FINAL . Since this application is in condition closed in accordance with the pract	2b)⊡ This action is for allowance exce	s non-final. pt for formal matte	•	e merits is	
Disposition	on of Claims					
5)□ 6)⊠ 7)□ 8)□ Applicatio	Claim(s) 1-20 is/are pending in the ala) Of the above claim(s) is/a Claim(s) is/are allowed. Claim(s) 1-20 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction Papers	tre withdrawn from the withdrawn				
10) 🔲 7	The specification is objected to by the Grawing(s) filed on is/are Applicant may not request that any objected to graving sheet(s) including the oath or declaration is objected to the species of the oath or declaration is objected to the species of the oath or declaration is objected to the species of the oath or declaration is objected to the species of the	: a) ☐ accepted or ection to the drawing(s g the correction is req	s) be held in abeyan uired if the drawing(ice. See 37 CFR 1.85(a). (s) is objected to. See 37 C		
Priority u	nder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notice 3) Inform	(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (Ination Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date	PTO-948)	Paper No(s	Summary (PTO-413) s)/Mail Date nformal Patent Application 		

DETAILED ACTION

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 102/103

Claims 1-20 stand rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Shapiro of record for reasons of record.

Response to Arguments

Applicant's arguments filed 6/11/08 have been fully considered but they are not persuasive.

Applicants argue that the pH and Eh gradients would not inherently form during the use of Shapiro's method, because Shapiro's electrodes include carbon, in addition to iron. The inclusion of carbon is taught to provide pH buffering and as a corrosion resistant material.

The portion of the patent talking about the possible use of carbon is found in col. 4, lines 27-30. However, when the entire paragraph is perused, the argument is rendered untenable. The paragraph in col. 4 begins at line 15 and states, "At least one of the anode and cathodes comprise an iron-containing material. For example, an anode is formed as an iron anode. ... Electrical connections, electrode sizes, and electrode materials for the electrodes include varying specifications depending on each treatment. For example, the electrodes <u>may</u> comprise carbon, in addition to iron, since

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carbon is a corrosion resistant material, in which carbon aids in pH buffering of the treatment method." (emphasis added)

Nothing in the paragraph requires the use of carbon, rather the carbon is shown as an alternative depending on treatment. Indeed, in col. 5, lines 7-11 discloses the dissolution of ferrous ions that are formed by electrolytic processes at <u>iron electrodes</u> (not iron and carbon electrodes).

Therefore, the gradients as claimed would have been inherently formed by the application of current between two iron electrodes placed within groundwater containing soils. *In re Spada* 15 USPQ2d 1655 (CAFC 1990).

In the alternative, one having ordinary skill in the art would have been motivated by the disclosure of the Shapiro patent, because the reference teaches the dissolution of iron electrodes to produce the iron ions to produce the soil remediation or soil engineering.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Arun S. Phasge whose telephone number is (571) 272-1345. The examiner can normally be reached on MONDAY-THURSDAY, 7:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam X. Nguyen can be reached on (571) 272-1342. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Arun S. Phasge/ Primary Examiner, Art Unit 1795